

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

PIPE JC/II
JUL 07 2004
FIGHTER TO DEFENSE OFFICE

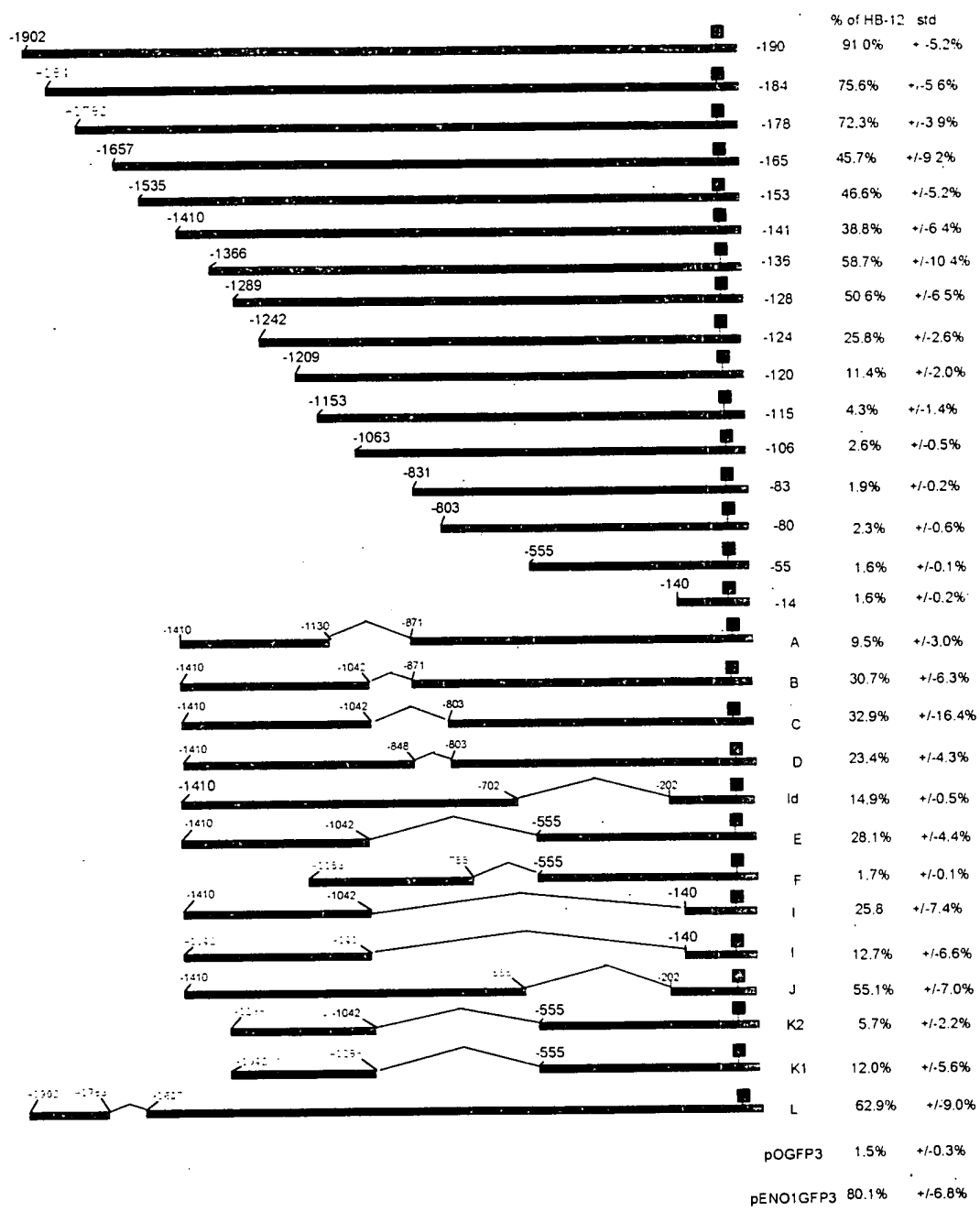


Figure 1A



-1902

GGTAATTATTGGAATGAACGTGTTTAAACATTTGAGGAATTGGTTTGGAGATGAGAATTG
GCACTAAATAGGTAATTGTTTATTTTTTAGCTGTTTCATATAATTTGGCAAGTAGTTTGTA
CTAATGATTGTGACTATTGAAAATGAATTTATTTTTTTTTTCAATTTGCCTTTTACAATA
GTATAATTTTGGCGTGTATATGGTTATGAACACTGTAAGCTGAATGCCATAAAAAACTC
TTAGCTGGGTCTAGTAATGTTGTGCATATGGTTGGCAGAAATGTCAAAAATGTAAGAGGA
TAGTATGTCGTGGGCGGACGCGAATCGTCAAAAAATCCGCCTCACAAATATTTGGATCAA
GATTTATGTAAACAACTCCCACAACCAATCGTCTGGCATTGAAATATACCATTTTATAG
TACCTATCAGTGCCATTTCTGTTAATATTTGGAATATTCCCTTGTCTTTGACTTTATTGC
TAGCATATAAAGAGATCTTTCTTTTTCATTTCCCTTAAAACCGATCAAGAAAGAAAGTGG
AAATAAAGCTATGATAAATGTTGATTTTGTGTAATCAATCAACTAAGCACGTTTGACAG
TTAAAAAGTACGTTGTTGTTGTCTCGTCTCGTCTAATTTCTGTTGACGAGGATTAATAA
CAAGAAATACAGGAAACCTCCAAAAAAAATTTTGGACCTTACACGCACATAAATTGC
GGATAAACTTGCCATAATAAAACTCTTTGAAACATACGATATGTTATTCTTTTCATAAC
TGGAATATTTTTGCTTTTTTTTAAACATTATGAACAATTGAAAAAAAAGGAAATGAAAAG
GTAAGAGTTGCCTAACCATTTGAAAATAATAGGCTAAGGTTTTTCCCTGATGCGTTTAACTA
AAAAGGAAATAACAAAAGTTATTAGCGATAACCTGCGTAAGGTGTCAACAAAATATATTT
TGTACGTAGCTTCTATAGAAAATATATAATCTAAATCCTTAAGGAATTTCCCTCTATATAT
AATAGGAAATCCCTCTCACAGTGAACCTGAATTATCCATCTGAATTATCAGTCCACTAATT
CCATCAATAAAATAGATTAGTGTATTGTTCTCTTCAGTACAATTACTACCATTATGCAAT
GCTAGCTTATTGTTTCATAATTAGCCATGTTGCACACCCTAATTTCGAACATTAACGTATC
CATATTTTTCTTGTCTTCTTTGTTTTTTTTCTAACAAAAATGTTCCAGAATTTTTTAAAA
AATATTTGAAAAACACATAACACTTTGAGTATGATAATATCAACCATTGACTTGTTTTG
AAAGTAAAGAATCAAATTTTTTTCTAACTCGACTAATGCACTTTACATCAACTGGATGTT
ATTTGCATCTACTACTATAAGCTCAAACAAATTATCTTTCAAAAATGTTATAATTAACAA
GTCATCTATAATTCTTTGGATCCAAAAACAAGGAATTCGGAAATTCTGACGATAAATGTC
GACTCACAATTCATTGTAAAAAGGGAGAGTTTTGGTAGGCTCATAATCGCTTATAATGTA
CCTCTAAAGTAATCTAAACAAACACAACCTTTCTAAAACCTATAATAAACCCTAATG
GCTCACAACCGGGATAAGTTAGTTAGCCCAGCTGTTTTTTTTTTTGCCTTATTTTTATGAC
TACATTTTGTTCCTTTTGTGCGACTTTAATACCGTTTTTGCACCTTCTCTTTGTAT
CACCTGTATCCGCCTTTTTTAACATAGCAACTCTTGTAAGTCCCTTTCTTTTCCCACTA
TTTTATCATTTCTTGAAATATGTAATCAGAATAGTTTTTCAAAAACCTATAAATAACGGTCA
AAATAACCGGCTATTTTCAATTTCCATTCAACTTGTTTTCTCAACAATATCAAACACAAC
AGGAATCTCCTATAGTCACTCGCTTTTAGTTTCGTCAATATG

Figure 5

GFP expression in external promoter deletions

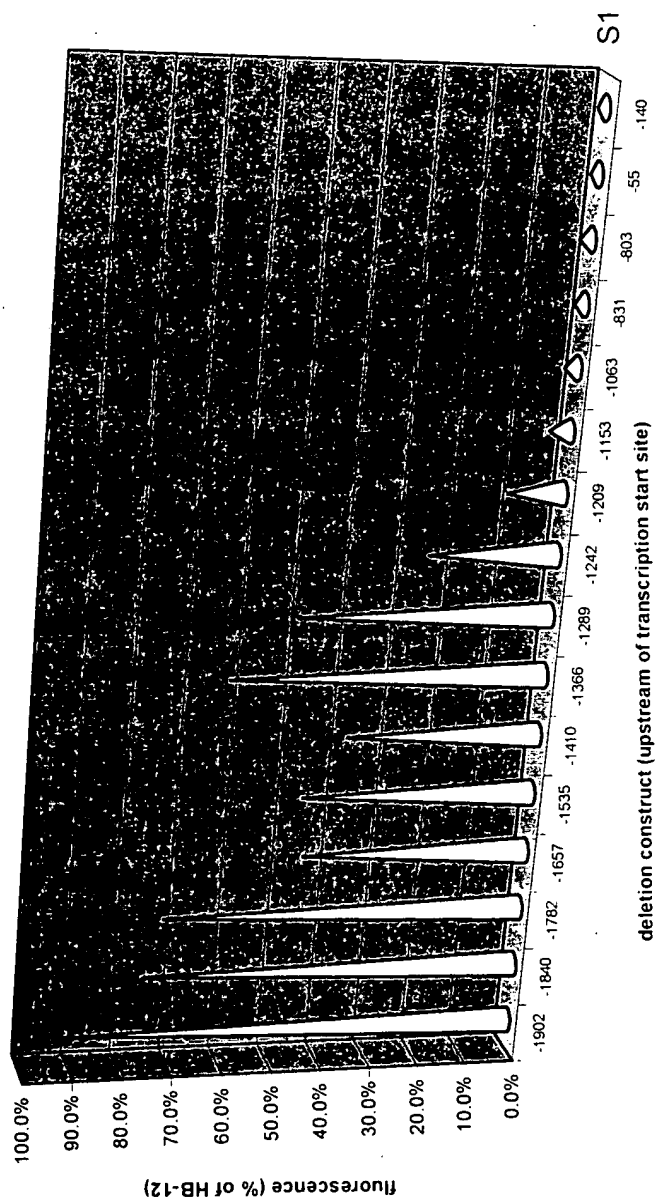


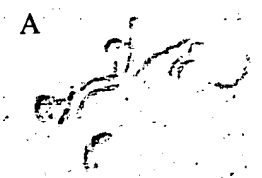
Figure 1B



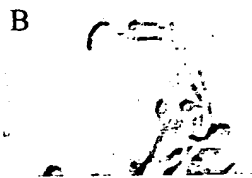
SC5314 (WT)

CAH7-1A (*hwp1/hwp1*)

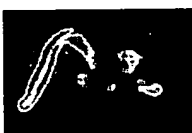
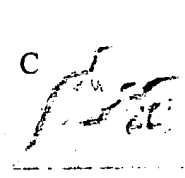
A



B



C



D

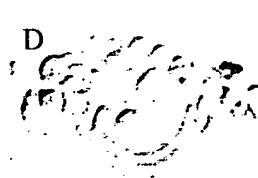


Figure 2

UIPE JC17
JUL 07 2004
OFFICE

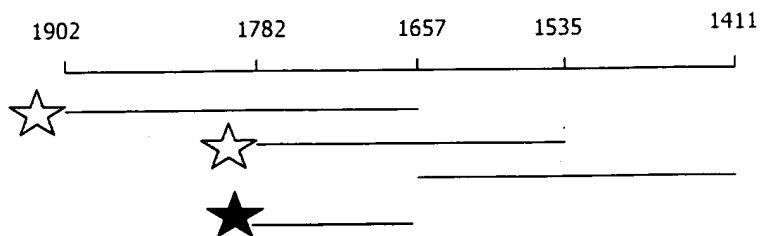


Figure 3A

Probe	1902-1657	1782-1535	1782-1657
Sp. Comp.	x 50 x x 50 x x x 50 x x 50 x x x 50 x x 50 x		
Non Sp. Comp.	X x 100 x x 100 x x x 100 x x 100 x x x 100 x x 100		
Protein sample	SC5314-y SC5314-g	SC5314-y	SC5314-g SC5314-y SC5314-g



Figure 3B

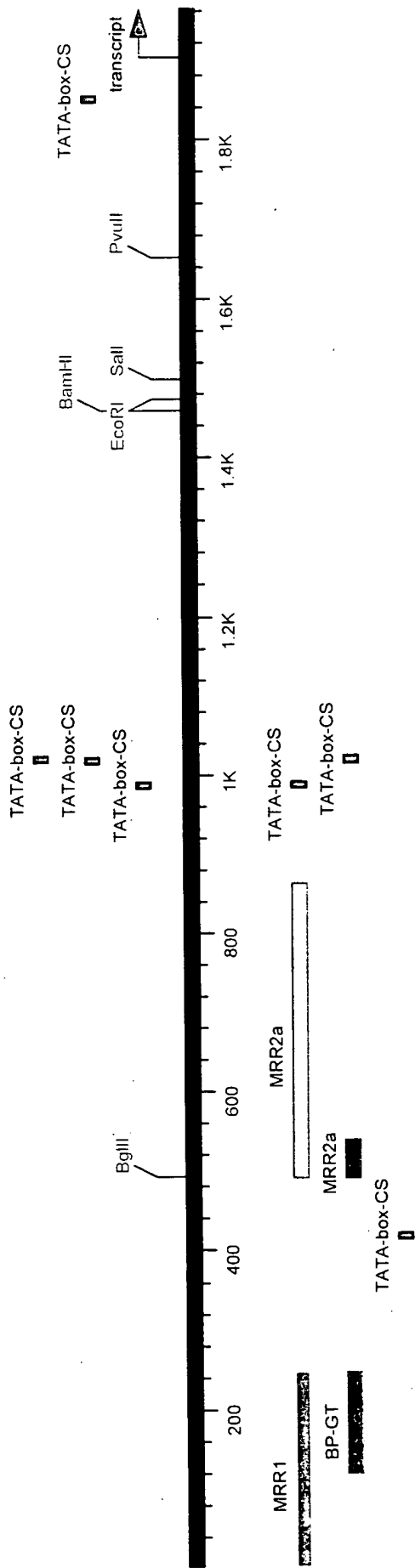


Figure 4